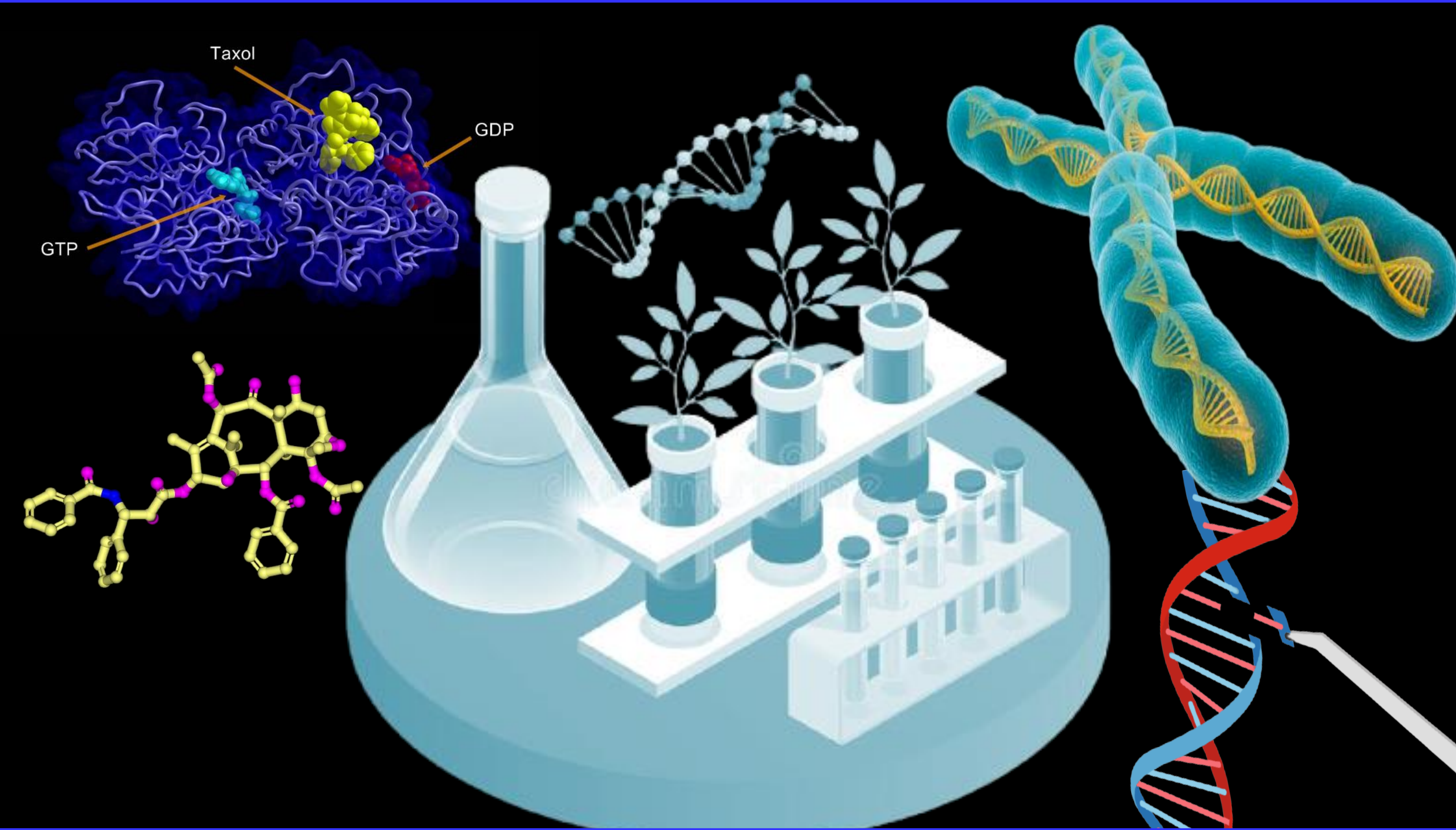
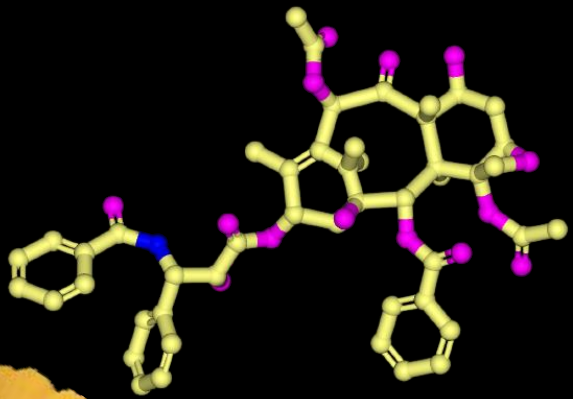
Reverse Pharmacognosy and In-Situ Activity Profiling: Natural Products' Future

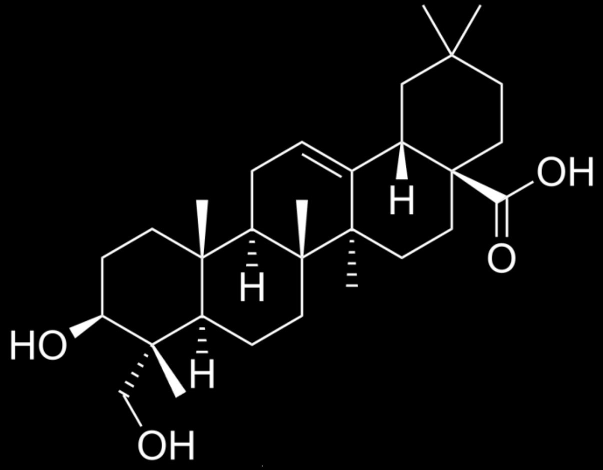


Dr. Omar M. Sabry

Introduction

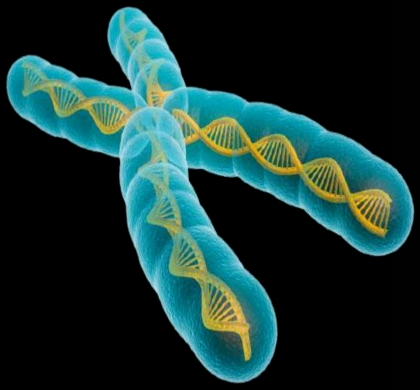
- ❑ The primal discipline from which pharmacy has developed can be considered as pharmacognosy

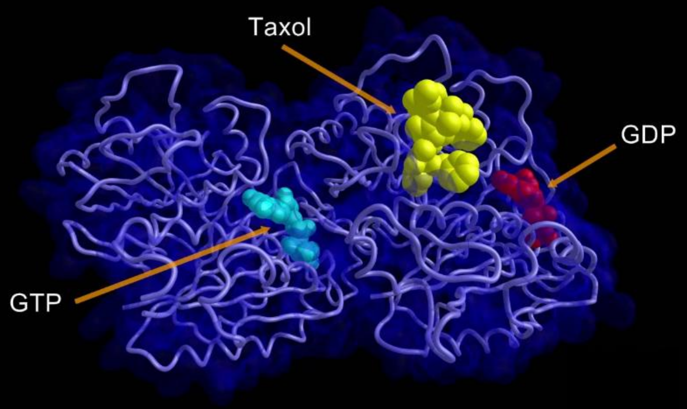




Introduction

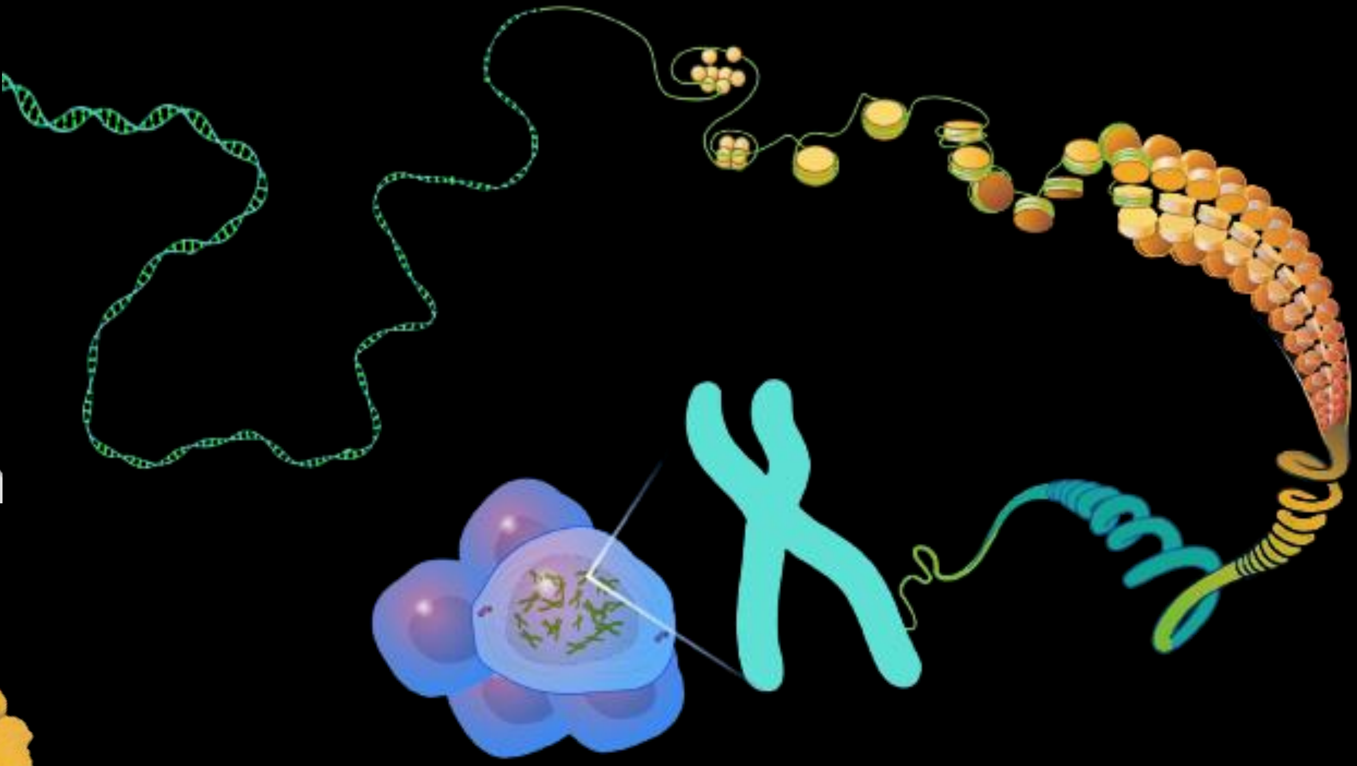
- Pharmacy today is a multidisciplinary subject with core research domains, including pharmacognosy, pharmaceutical biotechnology, pharmaceutical analysis, pharmaceutical chemistry, pharmacology and pharmaceutics.

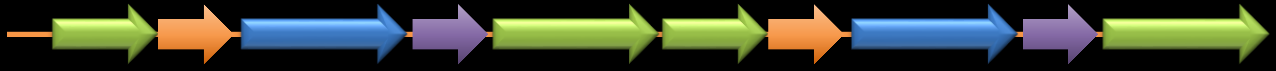




Aim of the topic

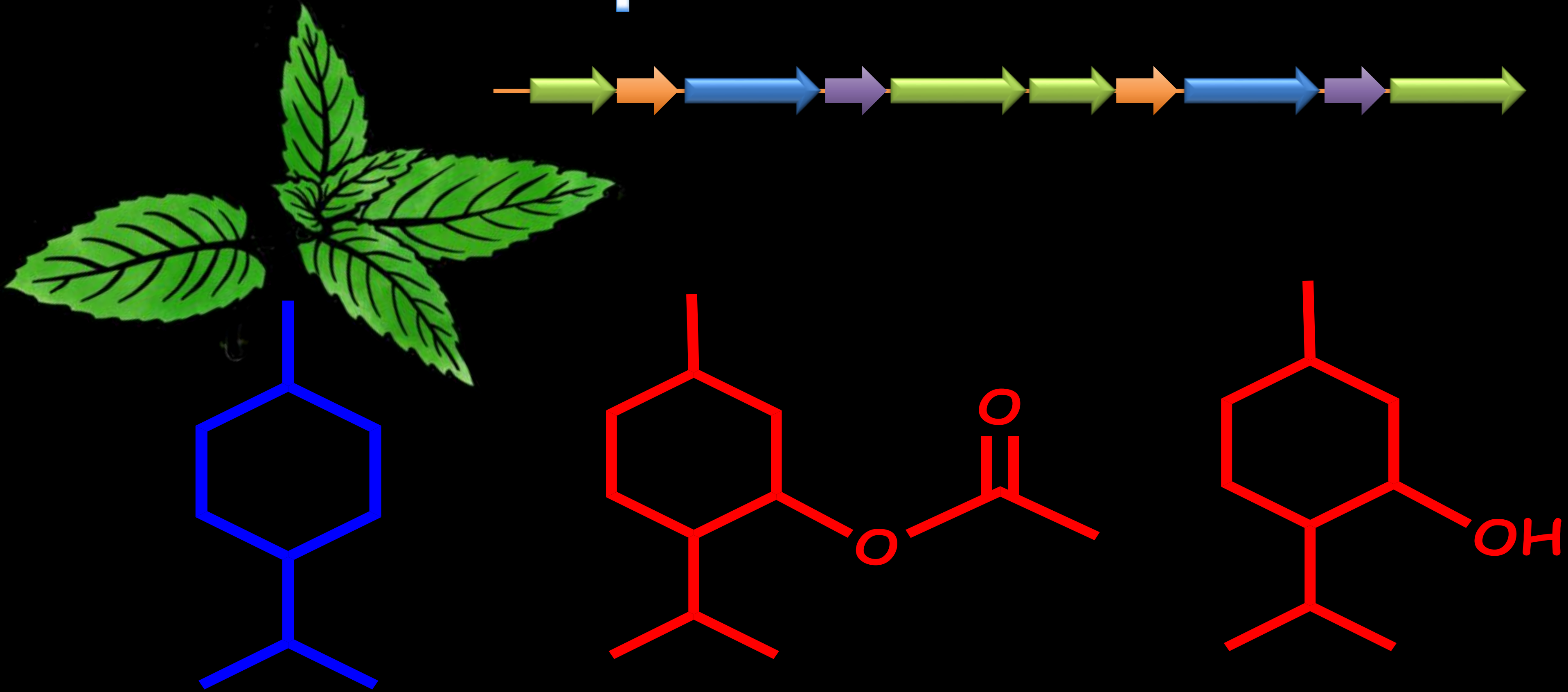
- Construction of medicinal plants genome databases





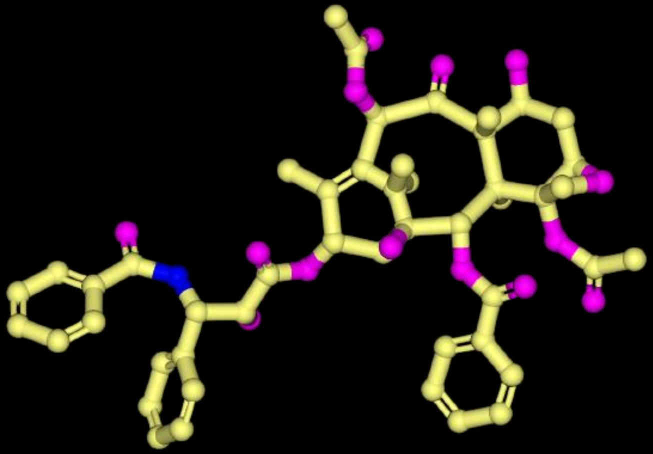
Aim of the topic

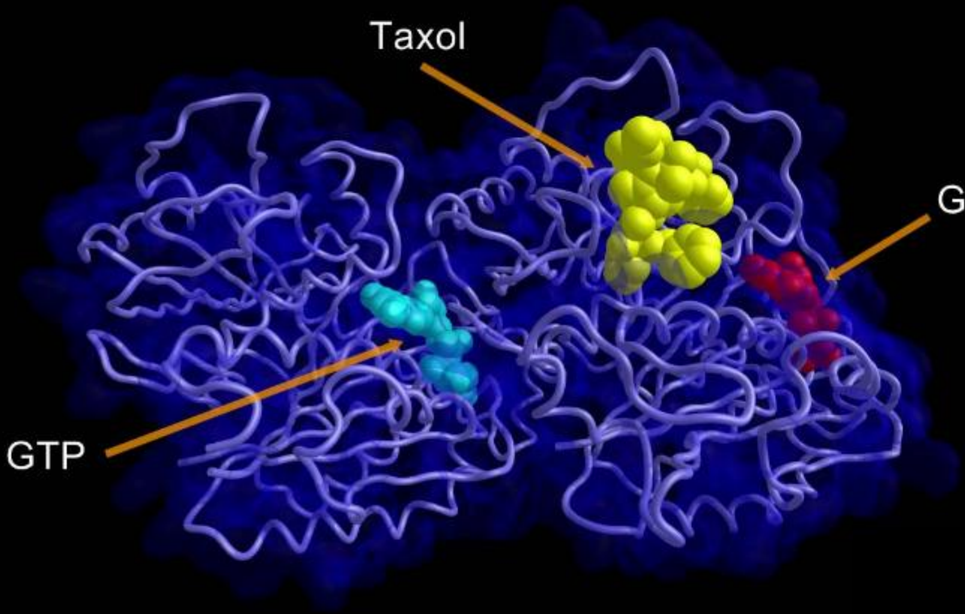
- ☐ Analysis of medicinal plants genomes to know the biosynthetic gene clusters and to predict the 2ry metabolites produced



Aim of the topic

- ☐ Carrying out in silico virtual biological screening for these metabolites



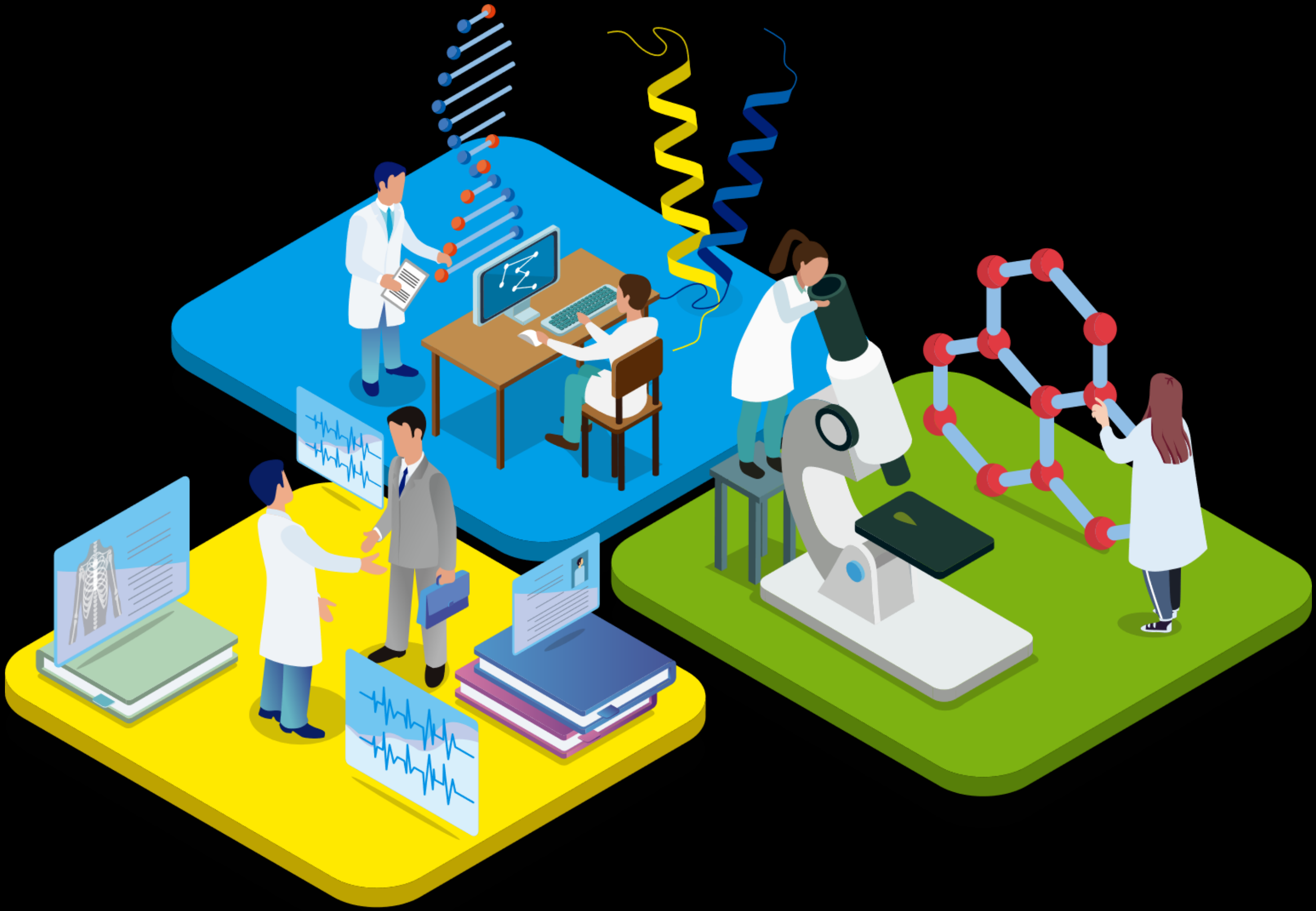


Aim of the topic

- Construction of databases for the whole identified 2^{ry} metabolites with their virtual biological activities

Aim of the topic

☐ Using these databases for drug discovery and development

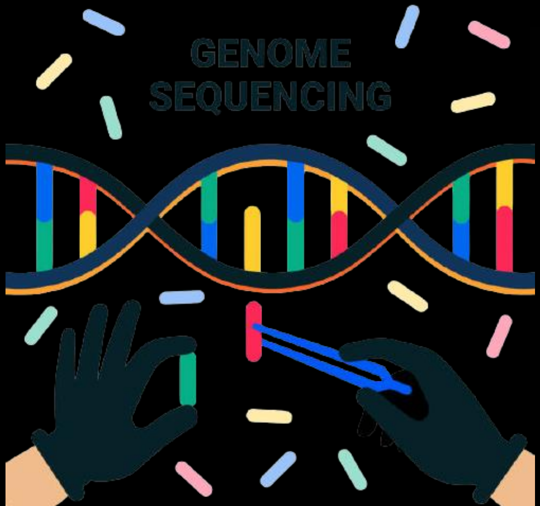


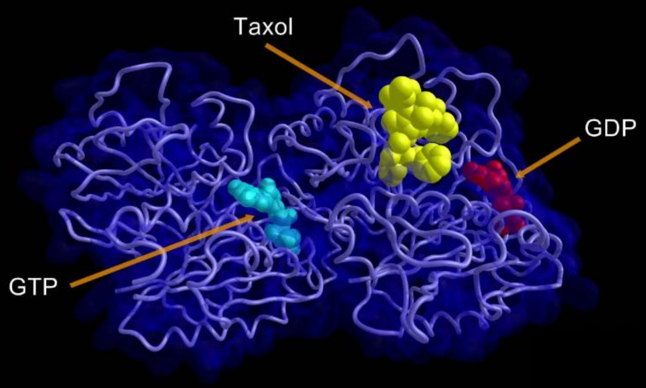
Methodology

☐ Medicinal plants databases

☐ Genome analysis databases

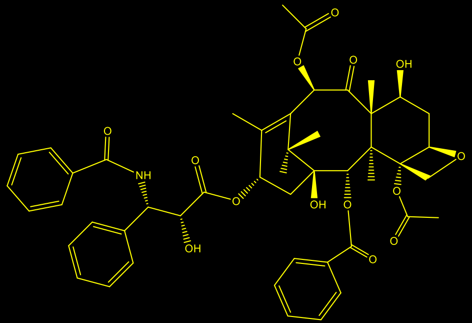
☐ Computational Chemistry
  Drug Docking

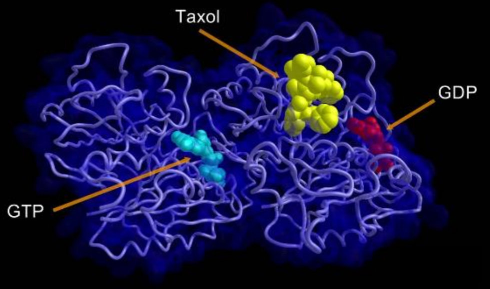


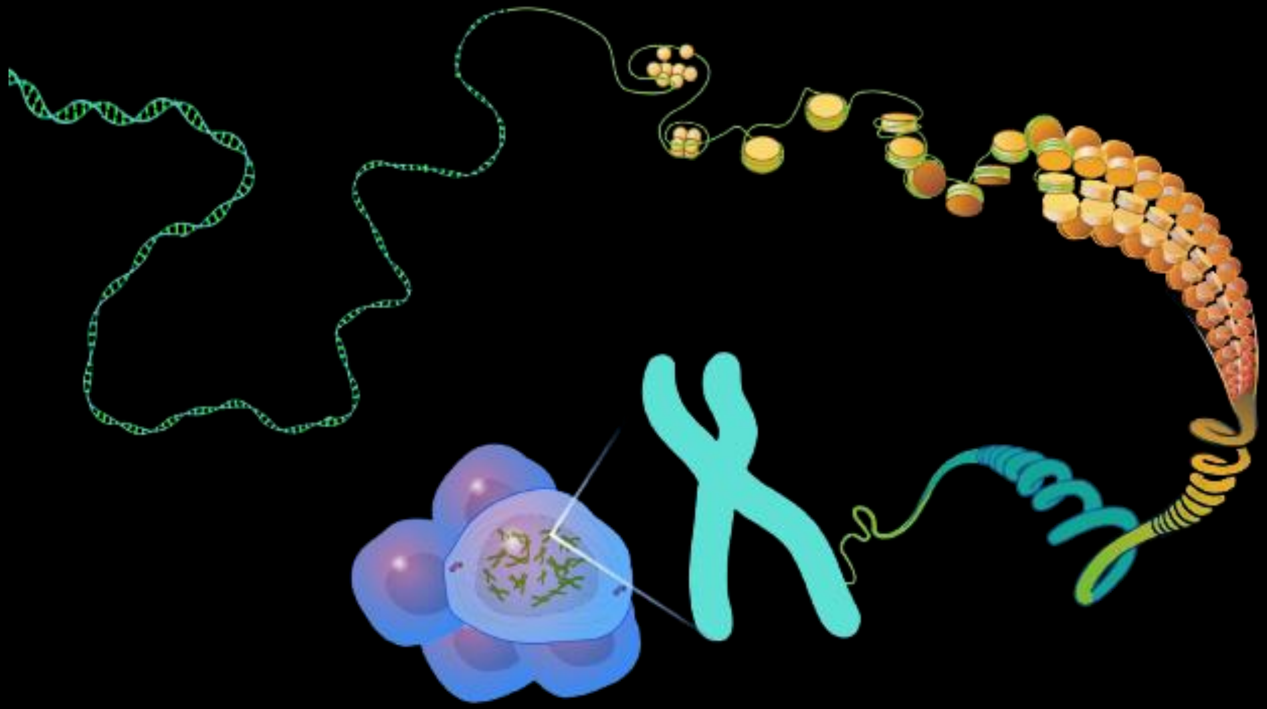


Conclusion

- Reverse Pharmacognosy and In-situ activity profiling of Natural Products can be used for drug discovery and development in the future







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Thank You